

Amendments to the Claims:

The listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A multi-leaf collimator apparatus comprising a first leaf plate driving body provided on a first side of the collimator and a second leaf plate driving body provided on a second side of the collimator, the first and second leaf plate driving bodies each including a plurality of movable leaf plates ~~palates and provided respectively on one side and the other side,~~ the plurality of leaf plates of said leaf plate driving body on the first side and the plurality of leaf plates of said leaf plate driving body ~~driver~~ on the ~~other~~ second side being disposed in an opposing relation to form an irradiation field of a radiation beam between the opposing leaf plates, wherein:

each of said first and second leaf plate driving bodies comprises a leaf plate moving device for moving said leaf plates by engaging with said ~~plural~~ plurality of leaf plates and transmitting a driving force to said engaged leaf plates, a driving force transmitting/cutoff device having a first motion moving each of said ~~plural~~ plurality of leaf plates to positions where each of said leaf plates engages with said leaf plate moving device and a second motion detaching each of said leaf plates from said leaf plate moving device, and a control device for engaging said ~~plural~~ plurality of leaf plates with said leaf plate moving device

by controlling said driving force transmitting/cutoff device ~~said~~ and canceling engagements between a leaf plate arrived at a predetermined position in said ~~plural~~ plurality of leaf plates and said leaf plate moving device by controlling said driving force transmitting/cutoff device.

2. (Currently Amended) A multi-leaf collimator apparatus according to claim 1, further comprising a position detecting device for detecting positions of said ~~plural~~ plurality of leaf plates, wherein

said control device comprising a memory device for memorizing predetermined positions for said ~~plural~~ plurality of leaf plates respectively, inputting position information of said ~~plural~~ plurality of leaf plates detected by said position detecting device, and detaching a leaf plate from leaf plate moving device, at the position of which said position information ~~becomes to be a~~ corresponding corresponds to a predetermined position by controlling said driving force transmitting/cutoff device.

3. (Currently Amended) A multi-leaf collimator apparatus according to claim 2, wherein said predetermined position for said ~~plural~~ plurality of leaf plates is information memorized in a database accompanied with a remedy scheduling unit.

4. (Original) A multi-leaf collimator apparatus according to claim 1, wherein said leaf plate moving device is a rotation device.

5. (Currently Amended) A multi-leaf collimator apparatus comprising a first leaf plate driving body provided on a first side of the collimator and a second leaf plate driving body provided on a second side of the collimator, the first and second leaf plate driving bodies each including a plurality of movable leaf plates ~~palates and provided respectively on one side and the other side, the~~ plurality of leaf plates of said leaf plate driving body on the first side and the plurality of leaf plates of said leaf plate driving body driver on the ~~other~~ second side being disposed in an opposing relation to form an irradiation field of a radiation beam between the opposing leaf plates, wherein

each of said first and second leaf plate driving bodies comprises a leaf plate moving device for moving said leaf plates by engaging with said ~~plural~~ plurality of leaf plates, a transmitting/cutoff device ~~being provided~~ corresponding to said ~~plural~~ plurality of leaf ~~plates~~ plate ~~respectively and engaging and~~ detaching corresponding which engages and detaches said leaf plate plates for to enable said leaf plate moving device to move freely, and a control device which engages for engaging said ~~plural~~ plurality of leaf plates with said leaf plate moving device by controlling said transmitting/cutoff device and cancelling engagements between a leaf plate arrived at a predetermined position in said

~~plural~~ plurality of leaf plates and said leaf plate moving device by controlling said transmitting/cutoff device.

6. (Currently Amended) A multi-leaf collimator apparatus according to claim 5, further comprising a position detecting device for detecting positions of said ~~plural~~ plurality of leaf plates, wherein

said control device comprising a memory device for memorizing predetermined positions for said ~~plural~~ plurality of leaf plates respectively, inputting position information of said ~~plural~~ plurality of leaf plates detected by said position detecting device, and detaching a leaf plate from leaf plate moving device, at the position of which said position information ~~becomes to be a~~ corresponding corresponds to a predetermined position by controlling said transmitting/cutoff device.

7. (Currently Amended) A multi-leaf collimator apparatus according to claim 6, wherein said predetermined position for said ~~plural~~ plurality of leaf plates is information memorized in a database accompanied with a remedy scheduling unit.

8. (Original) A multi-leaf collimator apparatus according to claim 5, wherein said leaf plate moving device is a rotation device.

9. (Currently Amended) A medical system ~~including an accelerator,~~
comprising:
an accelerator; and
an irradiator having a collimator through which a radiation beam emitted
from said accelerator passes, and irradiating the beam having passed said
collimator, wherein:

said collimator ~~device~~ comprises a first leaf plate driving bodies, body
provided on a first side of the collimator and a second leaf plate driving body
provided on a second side of the collimator, the first and second leaf plate driving
bodies each including a plural plurality of movable leaf plates ~~and provided~~
~~respectively on one side and the other side~~, said plural plurality of leaf plate
plates of said first and second leaf plate driving bodies being disposed in an
opposing relation to form an irradiation field of the radiation beam between the
opposing leaf plates, wherein

each of said leaf plate driving bodies comprises a leaf plate moving device
~~for moving~~ which moves said leaf plates by engaging with said ~~plural~~ plurality of
leaf plates and transmitting driving force to said engaged leaf plates, a driving
force transmitting/cutoff device having a first motion moving each of said ~~plural~~
plurality of leaf plates to positions where each of said leaf plates engages with
said leaf plate moving device and second motion detaching each of said leaf
plates from said leaf plate moving device, and a control device ~~for engaging~~
which engages said ~~plural~~ plurality of leaf plates with said leaf plate moving

device by controlling said driving force transmitting/cutoff device ~~said~~ and canceling engagements between a leaf plate arrived at a predetermined position in said ~~plural~~ plurality of leaf plates and said leaf plate moving device by controlling said driving force transmitting/cutoff device.

10. (Original) A medical system according to claim 9, wherein said leaf plate moving device is a rotation device.

11. (Currently Amended) A medical system ~~including an accelerator,~~ comprising:

an accelerator; and

an irradiator having a collimator device through which a radiation beam emitted from said accelerator passes, and irradiating the beam having passed said collimator device, wherein:

said collimator device comprises a first leaf plate driving bodies, body provided on a first side of the collimator and a second leaf plate driving body provided on a second side of the collimator, the first and second leaf plate driving bodies each including a plural plurality of movable leaf plates and provided respectively on one side and the other side, said ~~plural~~ plurality of leaf plate of said leaf plate driving bodies being disposed in an opposing relation to form an irradiation field of the radiation beam between the opposing leaf plates, wherein

each of said first and second leaf plate driving bodies comprises a leaf plate moving device ~~for moving~~ which moves said leaf plates by engaging with said ~~plural~~ plurality of leaf plates, a transmitting/cutoff device ~~being provided~~ corresponding to said ~~plural~~ plurality of leaf plate plates ~~respectively and~~ engaging and detaching corresponding which engages and detaches said leaf ~~plate for~~ plates to enable said leaf plate moving device to move freely, and a control device ~~for engaging~~ which engages said ~~plural~~ plurality of leaf plates with said leaf plate moving device by controlling said transmitting/cutoff device and cancelling engagements between a leaf plate arrived at a predetermined position in said ~~plural~~ plurality of leaf plates and said leaf plate moving device by controlling said transmitting/cutoff device.

12. (Currently Amended) A medical system according to claim 11, further comprising a position detecting device for detecting positions of said ~~plural~~ plurality of leaf plates, wherein

said control device comprising a memory device which memorizes ~~for memorizing~~ predetermined positions for said ~~plural~~ plurality of leaf plates respectively, inputting inputs position information of said ~~plural~~ plurality of leaf plates detected by said position detecting device, and ~~detaching~~ detaches a leaf plate from said leaf plate moving device, at the position of which said position

information ~~becomes to be a corresponding~~ corresponds to a predetermined position by controlling said transmitting/cutoff device.

13. (Currently Amended) A medical system according to claim 12, wherein said predetermined position for said ~~plural~~ plurality of leaf plates is information memorized in a database accompanied with a remedy scheduling unit.

14. (Original) A medical system according to claim 11, wherein said leaf plate moving device is a rotation device.

15. (Currently Amended) A multi-leaf collimator apparatus comprising a first leaf plate driving body provided on a first side of the collimator and a second leaf plate driving body provided on a second side of the collimator, the first and second leaf plate driving bodies each including a plurality of movable leaf plates ~~palates and provided respectively on one side and the other side~~, the plurality of leaf plates of said leaf plate driving body on the first side and the plurality of leaf plates of said leaf plate driving body ~~driver~~ on the ~~other~~ second side being disposed in an opposing relation to form an irradiation field of a radiation beam between the opposing leaf plates, wherein

each of said first and second leaf plate driving bodies comprises a leaf plate moving device for moving said leaf plates by engaging with said ~~plural~~ plurality of leaf plates and transmitting a driving force to said engaged leaf

plates, a driving force transmitting/cutoff device having a first motion moving each of said ~~plural~~ plurality of leaf plates to positions where each of said leaf plates engages with said leaf plate moving device in another direction crossing a moving direction of said leaf plate and a second motion detaching each of said leaf plates from said leaf plate moving device by moving in said another direction, and a control device which engages ~~for engaging~~ said plurality ~~plural~~ of leaf plates with said leaf plate moving device by controlling said driving force transmitting/cutoff device ~~said~~ and cancelling engagements between a leaf plate arrived at a predetermined position in said ~~plural~~ plurality of leaf plates and said leaf plate moving device by controlling said driving force transmitting/cutoff device.

16. (Currently Amended) A multi-leaf collimator apparatus comprising a first leaf plate driving body provided on a first side of the collimator and a second leaf plate driving body provided on a second side of the collimator, the first and second leaf plate driving bodies each including a plurality of movable leaf plates ~~palates and provided respectively on one side and the other side~~, the plurality of leaf plates of said leaf plate driving body on the first side and the plurality of leaf plates of said leaf plate driving body ~~driver~~ on the ~~other~~ second side being disposed in an opposing relation to form an irradiation field of a radiation beam between the opposing leaf plates, wherein

each of said first and second leaf plate driving bodies comprises a leaf plate moving device ~~for moving~~ which moves said leaf plates by engaging with said ~~plural~~ plurality of leaf plates, a transmitting/cutoff device ~~being provided~~ corresponding to said ~~plural~~ plurality of leaf plate plates ~~respectively and~~ ~~engaging and detaching corresponding~~ which engages and detaches said leaf plate ~~for to enable~~ said leaf plate moving device to move freely by moving said corresponding leaf plate in another direction crossing a moving direction of said leaf plate, and a control device which engages ~~for engaging~~ said plurality ~~plural~~ of leaf plates with said leaf plate moving device by controlling said transmitting/cutoff device and canceling engagements between a leaf plate arrived at a predetermined position in said ~~plural~~ plurality of leaf plates and said leaf plate moving device by controlling said transmitting/cutoff device.

17. (Currently Amended) A multi-leaf collimator apparatus according to claim 16, further comprising a position detecting device for detecting positions of said ~~plural~~ plurality of leaf plates, wherein

said control device comprising a memory device which memorizes ~~for memorizing~~ predetermined positions for said ~~plural~~ plurality of leaf plates respectively, ~~inputting~~ inputs position information of said ~~plural~~ plurality of leaf plates detected by said position detecting device, and ~~detaching~~ detaches a leaf plate from leaf plate moving device, at the position of which said position information ~~becomes to be a corresponding~~ corresponds to a predetermined position by controlling said transmitting/cutoff device.

18. (Currently Amended) A multi-leaf collimator apparatus according to claim 17, wherein said predetermined position for said ~~plural~~ plurality of leaf plates is information memorized in a database accompanied with a remedy scheduling unit.

19. (Original) A multi-leaf collimator apparatus according to claim 16, wherein said leaf plate moving device is a rotation device.

20. (Original) A multi-leaf collimator apparatus according to claim 16, wherein said leaf plate moving device comprises a holding device stopping a position thereof by attaching to said leaf plate.

21. (Currently Amended) A medical system ~~including an accelerator,~~ comprising:

an accelerator; and

an irradiator having a collimator device through which a radiation beam emitted from said accelerator passes, and irradiating the beam having passed said collimator device, wherein:

said collimator device comprises a first leaf plate driving body provided on a first side of the collimator and a second leaf plate driving body provided on a second side of the collimator, the first and second leaf plate driving bodies each including ~~plural~~ a plurality of movable leaf plates and provided respectively on one side and the other side, said ~~plural~~ plurality of leaf plate plates of said first

and second leaf plate driving bodies being disposed in an opposing relation to form an irradiation field of the radiation beam between the opposing leaf plates, wherein

each of said first and second leaf plate driving bodies comprises a leaf plate moving device for moving said leaf plates by engaging with said plurality of plural leaf plates, a transmitting/cutoff device ~~being provided~~ corresponding to said ~~plural~~ plurality of leaf plates ~~plate~~ respectively ~~and engaging and detaching~~ which engages and detaches corresponding leaf plate for said leaf plate moving device ~~freely~~ by moving said corresponding leaf plate in another direction crossing a moving direction of said leaf plate, and a control device which engages ~~for engaging~~ said ~~plural~~ plurality of leaf plates with said leaf plate moving device by controlling said transmitting/cutoff device and cancelling engagements between a leaf plate arrived at a predetermined position in said plural leaf plates and said leaf plate moving device by controlling said transmitting/cutoff device.

22. (Currently Amended) A medical system ~~including an accelerator,~~ comprising:

an accelerator; and

an irradiator having a collimator device through which a radiation beam emitted from said accelerator passes, and irradiating the beam having passed said collimator device, wherein:

said collimator device comprises a first leaf plate driving body provided on a first side of the collimator and a second leaf plate driving body provided on a second side of the collimator, the first and second leaf plate driving bodies each including a plurality of plural movable leaf plates and provided respectively on one side and the other side, said plurality of plural leaf plate plates of said leaf plate driving bodies being disposed in an opposing relation to form an irradiation field of the radiation beam between the opposing leaf plates, wherein

each of said first and second leaf plate driving bodies comprises a leaf plate moving device ~~for moving~~ which moves said leaf plates by engaging with said ~~plural~~ plurality of leaf plates, a transmitting/cutoff device ~~being provided~~ corresponding to said ~~plural~~ plurality of leaf plate plates respectively and ~~engaging and detaching~~ which engages and detaches a corresponding leaf plate for said leaf plate moving device ~~freely~~ by moving said corresponding leaf plate in another direction crossing a moving direction of said leaf plate, and a control device ~~for engaging~~ which engages said ~~plural~~ plurality of leaf plates with said leaf plate moving device by controlling said transmitting/cutoff device and cancelling engagements between a leaf plate arrived at a predetermined position in said plural leaf plates and said leaf plate moving device by controlling said transmitting/cutoff device.

23. (Currently Amended) A medical system according to claim 22, further comprising a position detecting device ~~for detecting~~ which detects positions of said plural leaf plates, wherein

said control device comprising a memory device which memorizes ~~for memorizing~~ predetermined positions for said ~~plural~~ plurality of leaf plates respectively, ~~inputting~~ inputs position information of said ~~plural~~ plurality of leaf plates detected by said position detecting device, and ~~detaching~~ detaches a leaf plate from said leaf plate moving device, at the position of which said position information ~~becomes to be a corresponding~~ corresponds to a predetermined position by controlling said transmitting/cutoff device.

24. (Currently Amended) A medical system according to claim 23, wherein said predetermined position for said ~~plural~~ plurality of leaf plates is information memorized in a database accompanied with a remedy scheduling unit.

25. (Original) A medical system according to claim 22, wherein said leaf plate moving device is a rotation device.

26. (Original) A medical system according to claim 22, wherein said leaf plate moving device comprises a holding device stopping a position thereof by attaching to said leaf plate.